

Title (en)
TRANSITION METAL CATALYTIC SYSTEMS AND METHODS FOR PREPARING ETHYLENE HOMOPOLYMERS OR COPOLYMERS OF ETHYLENE AND ALPHA-OLEFINS USING THE SAME.

Title (de)
ÜBERGANGSMETALLKATALYSATORSYSTEME UND -VERFAHREN ZUR HERSTELLUNG VON ETHYLEN-HOMOPOLYMEREN ODER -COPOLYMEREN AUS ETHYLEN UND ALPHA-OLEFINEN DAMIT

Title (fr)
SYSTÈMES CATALYTIQUES À MÉTAL DE TRANSITION ET PROCÉDÉS DE PRÉPARATION D'HOMOPOLYMÈRES D'ÉTHYLÈNE OU DE COPOLYMÈRES D'ÉTHYLÈNE ET D'ALPHA-OLÉFINES UTILISANT CEUX-CI

Publication
EP 2326654 A2 20110601 (EN)

Application
EP 09816418 A 20090923

Priority
• KR 2009005429 W 20090923
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Abstract (en)
[origin: US2010081776A1] Provided are transition metal catalytic systems for preparing ethylene homopolymers or copolymers of ethylene with α -olefins. More specifically, provided are Group 4 transition metal catalysts, which is characterized in that the catalyst comprises around the Group 4 transition metal a cyclopentadiene derivative, and at least one aryloxide ligand(s) having a fluorenyl group or a derivative thereof (which is ready to be substituted at 9-position) that functions as an electron donor and serves to stabilize the catalytic system by surrounding an oxygen atom that links the ligand to the transition metal at ortho-position, and there is no cross-linkage between the ligands; catalytic systems comprising such transition metal catalyst and aluminoxane cocatalyst or boron compound cocatalyst; and processes for preparing ethylene homopolymers or copolymers of ethylene with α -olefins by using the same.

IPC 8 full level
C07F 7/28 (2006.01); **B01J 31/38** (2006.01); **C08F 4/6592** (2006.01); **C08F 210/16** (2006.01)

CPC (source: EP KR US)
B01J 31/38 (2013.01 - KR); **C07F 7/28** (2013.01 - KR); **C07F 17/00** (2013.01 - EP US); **C08F 10/02** (2013.01 - KR); **C08F 210/02** (2013.01 - KR); **C08F 210/16** (2013.01 - EP US); **C08F 4/65908** (2013.01 - EP US); **C08F 4/65912** (2013.01 - EP US); **C08F 110/02** (2013.01 - EP US); **C08F 2420/03** (2013.01 - EP US); **Y10S 526/943** (2013.01 - EP US)

Cited by
WO2019141838A1; US11560467B2; WO2018153917A1; US11091611B2; WO2018028921A1; WO2018029293A1; US10889708B2

Designated contracting state (EPC)
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Designated extension state (EPC)
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